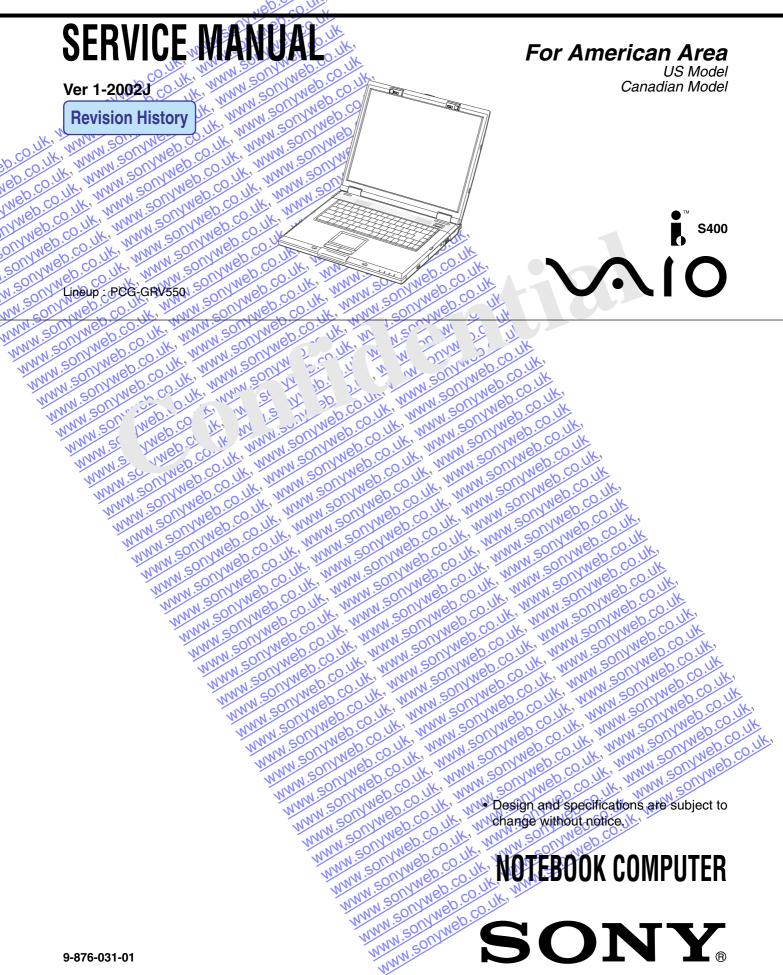
PCG-GRV550



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In this manual, the (TM) or (R) mark are not specified.

<u>Caution Markings for Lithium/Ion Battery</u> - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.

Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of bydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the \triangle mark, which appears in circuil diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety, features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 2700.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

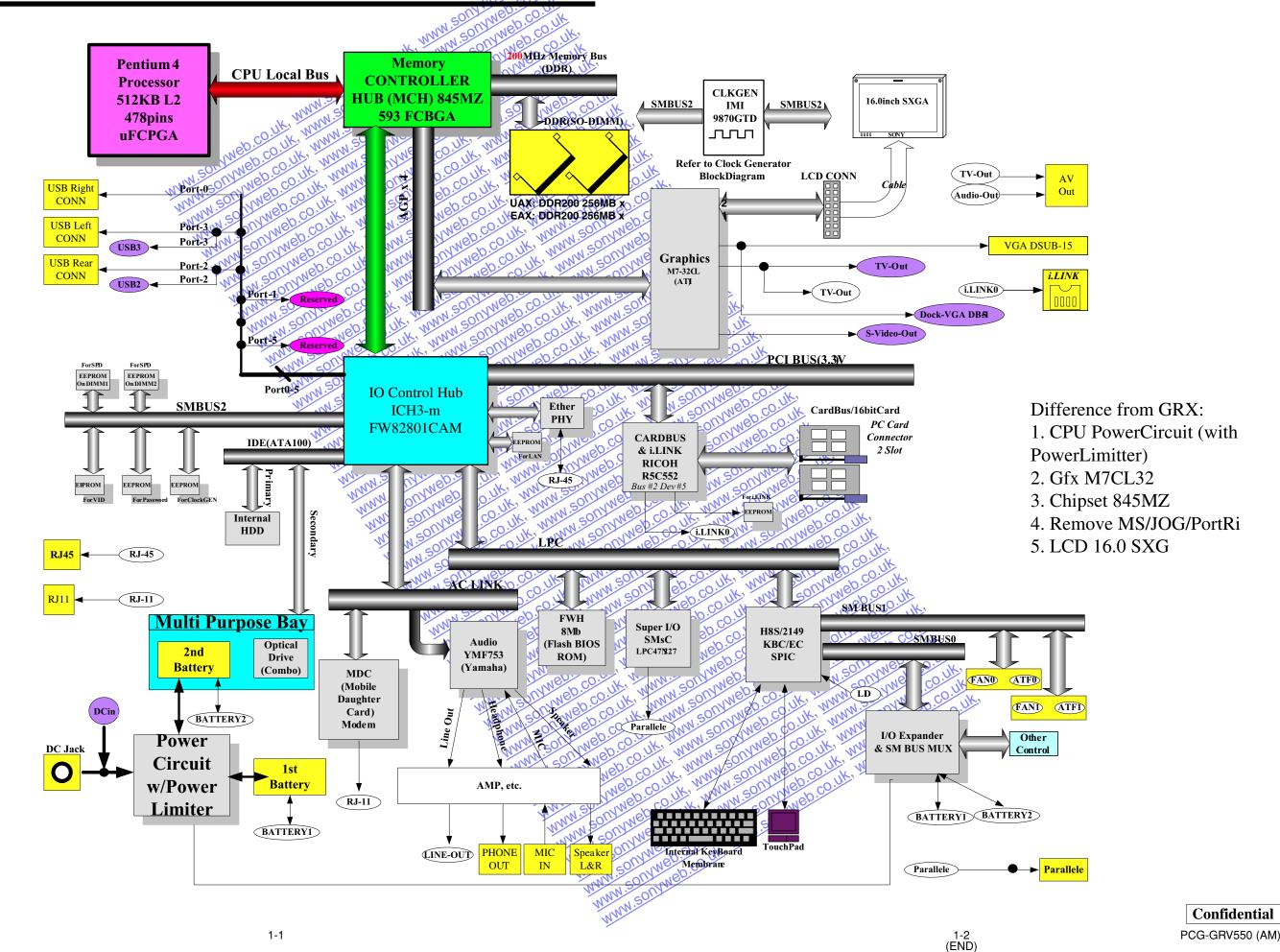
ATTENTION AU COMPOSANT AYANT RAPPORT

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMEROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

Confidential

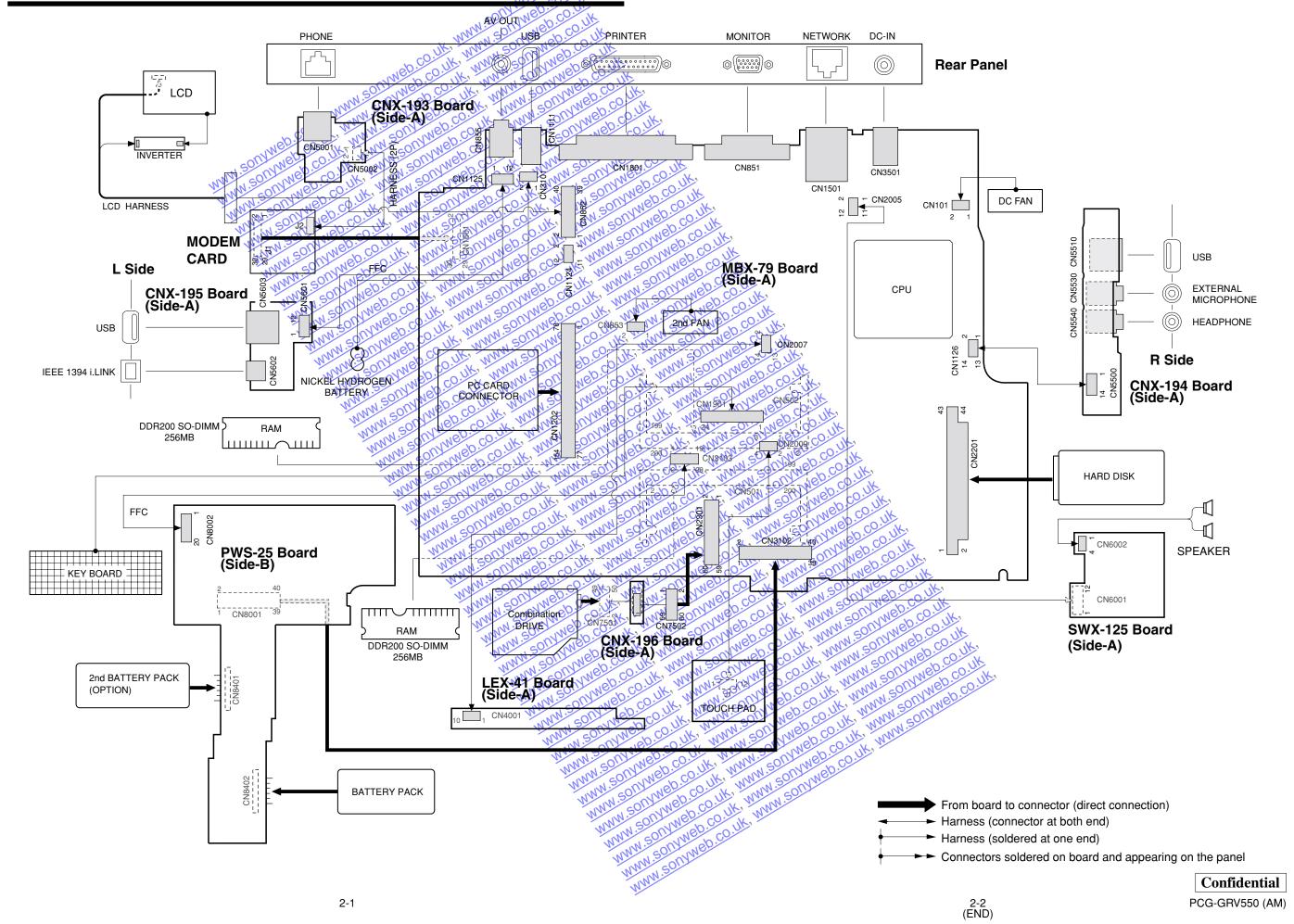
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				WWW.3		Confidential PCG-GRV550 (AM)
			-	_3_		PCG-GRV550 (AM)

CHAPTER 1. BLOCK DIAGRAM



CHAPTER 2.

FRAME HARNESS DIAGRAM



CHAPTER 3.

www.sonyweb.co.uk, www.sonyweb.c www.sonyweb.co.uk, www.sonyweb.c

EXPLODED VIEWS AND PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- · When two or more parts are shown in parallel, use the part described first as the main part.
- The parts marked "\$" are the High Value Modules.
- The parts marked " # " are the parts on which barcode label is attached.

The components identified by mark ${\ensuremath{\vartriangle}}$ or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Ne les remplacer que par une pièce portant le numéro spécifié.

- 四川番号のない部品は供給しません。 ・併記部品の場合、上部記載部品をダイン部品とも文使用してく ださい。 部品名称の前に多印のついた部品は、

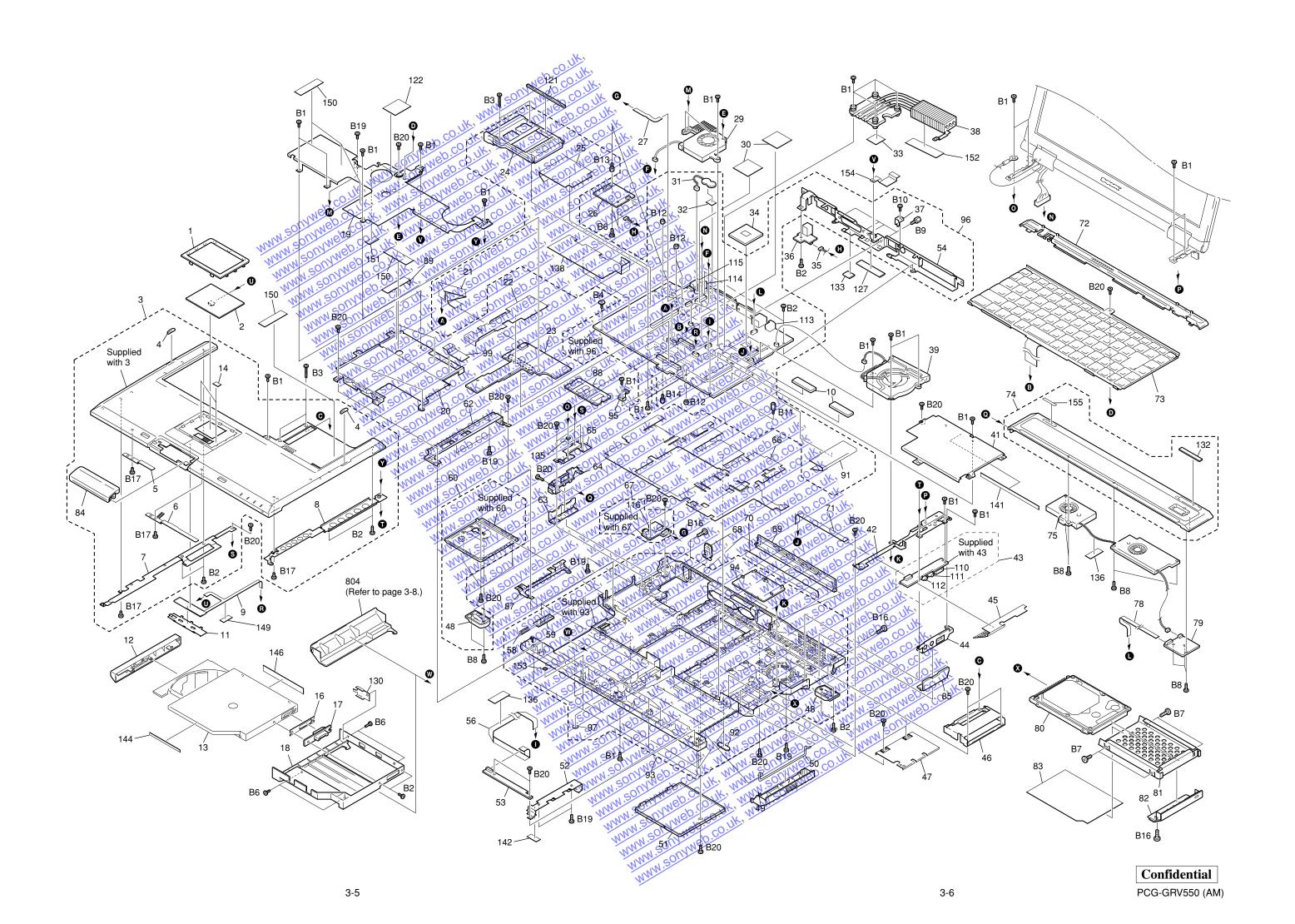
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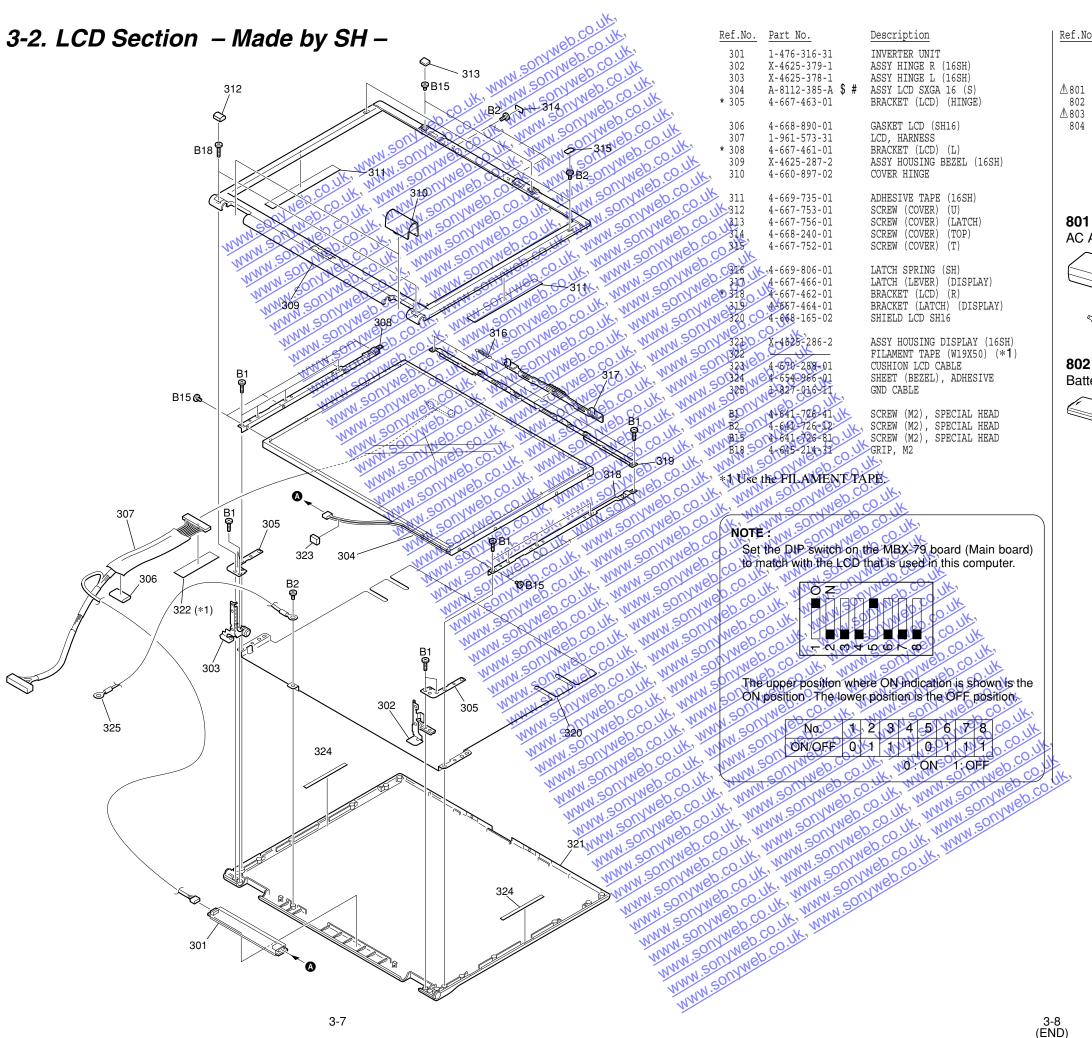
> Confidential PCG-GRV550 (AM)

3-1. Main Section

					onyweb.ce	O.UK,			
<pre>Ref.No.</pre>	Part No.	<u>Description</u>	Ref.No.	Part No.	Description	CO.UK	<pre>Ref.No.</pre>	Part No.	Description
1	4-660-888-01	ESCUSHON TACHPAD	67	A-8067-663-A \$	COMPLETE PWB CNX-195	CO:UK	B1	4-641-726-41	SCREW (M2), SPECIAL HEAD
3	X-4625-380-1	ASSY HOUSING PALMREST H	69	4-660-864-21	DOOR TO SO W	ob co. UK,	B2 B3	7-621-772-70	SCREW (MZ), SPECIAL HEAD SCREW +B 2X14
4 5	4-660-904-01	CUSHION PALMREST	70 71	4-660-874-01	LABEL TO FLEVIELE FLAF	166 CO. UK	B4 B6	4-654-387-01	SCREW (MBX)
J	4-000-300-13	SPRING BLIND	11 .W	50024-040-12 001	CADUS, LINKARDING HAT	Mep.co.uk,	ВО	4-030-703-01	SCREW PIZ
6 7	4-668-482-01 4-660-900-02	SPRING (BLIND) (R) PLATE ARM LEFT	72	4-660-887-05	DISPDAY BASE S	Nyweb.co.uk	B7 B8	4-635-301-01 4-639-112-01	SCREW M3X4 SCREW M2X4
* 8	4-660-901-01	PLATE ARM RIGHT	74	X 4625-341-2	ASSY (MOLD) (HOOD KE	YBOARD CO.	B9	4-635-966-01	SCREW (HEX)
9 10	1-761-518-11 4-668-317-01	THERMAL SHEET FET (H)	78	1-825-252-11	SPEAKER (WITH 2.8CM CABLE, FLEXIBLE FLAT	BOXIVEO.CO.U	B10 B11	4-642-852-01 4-654-386-01	+B M2 SPACER (PWS)
+ 11	4 660 002 01	DRACKET TOUGUDAD N. SOTT WEST	O.COUK,	WWW.SOTT AVOING	CONDITION DISCOUNTY 125	N.50117 Web.co.	UK	7 622 205 05	MIT MO TUDEO
12	X-4624-620-3	ASSY BEZEL COMBO (CNC)	.CO9 .JK	A-8112-293-A \$ #	ASSY HDD 30GB (F,20)	(8).50 CLYWOOD.CO	B13	4-651-989-01	SPACER (MBX)
13 14	8-458-828-72 \$ # 4-661-451-01	RW DRIVE CRX810E-VN	7.81 870.V	4-653-799-02 X-4624-536-2	BRACKET HDD	WIN SONYWOOD	B14)	4-661-248-01	SPACER 4MM SCREW M3
16	4-654-837-01	SHEET BAY BOARD	16/83 CO	4-653-801-02	SHEET HOD	WINN SOUTH WED	B17	4-657-192-01	SCREW, TAPPING, SPECIAL
17	A-8067-664-A \$	COMPLETE PWB CNX-196 VVVII SOLD	W84 V.	4-667-893-01	COVER LOGO CO. UK	WWW. SOUNNE	B19	4-641-726-21	SCREW (M2). SPECIAL HEAD
18	4-660-860-03	CASE BAY	N 85 CO	X-4624+539-2	ASSY DOOR R	K, WWW. SOLLY	B20 C	4-669-867-01	SCREW (M2), SPECIAL HEAD
20	X-4625-374-2 X-4624-528-2	ASSY BRACKET BAY	0.88	6-600-116-01	IC M470L3224DT0-CB0	UK, WWW.SON	Meb.	CO:UK,	
21	1-823-721-12	CABLE, FLEXIBLE FLAT	COLYM	19-667-961-0V WW	(DDR266 SO-DIMM 256M	BUN, WWW.SO	Mynek	CO.UK	
22	4-661-289-01	INSULATOR PWS	SOUTH	WE CO: W. W	WW. SON WEO.	CO.U.K, WYNW.S	OUTING	30.00.UK	
23 24	A-8067-665-A \$ 1-815-594-21	COMPLETE PWB PWS-25 CONNECTOR PC CARD (EJECT RIGHT)	N.9100	4-662-926-02	INSULATOR HDD PWB	D.CO. UK, WWW.	SOUN	Neo: co.culk,	
25	4-660-831-01	INSULATOR PCMCIA	NV93 50	X-4625-370C1	ASSY HOUSING BOTTOM	HO.CO. UK, WINN	N.5011	MARCO CO. UK	
26	1-761-606-11	CARD, MODEM	NV95N.5	4-662-798-01	PLATE GND PWS	Nep.co.nk, ww	1W.501	UMNep.co.rik	
27	1-761-519-11	PWB, FLEXIBLE PRINT	MMIN	300 200 P & #C	MDV 70 7 00 V (0) COL	Mep. Co. UK, M	WW.SC	onyweb.co.u	
30	4-666-751-01	THERMAL SHEET ATI	97 W	4-654-380-21	CAP BAY	UNINED COUNTY	WANN.	SOUTHED CO	JIK.
31 32	1-756-281-11 4-642-711-01	BATTERY, NICKEL HYDROGEN SHEET (BATTERY) ADHESIVE	99 N	4 664-547-01 1-793-365-21	SHEET FPC	OUT MEDICO OF	NNN	N SONY WED C	9: UK,
32		SHEET (BITTERT), TEMESTVE	111	11-793-162-11	JACK, SMALL TYPE	SOLL SOLL SOLL SOLL SOLL SOLL SOLL SOLL	K, WW	W. SOLLAND	COLUK
33 34	4-668-785-01 6-703-633-01	THERMAL SHEET CPU IC RK80532PC056512SL6GS	112	1-695-514-24	DACK CO: UK, WINT	N.SONYWeb.CO	UK W	WY SOLUTION	0.00.11%
35	1-960-827-61	HARNESS (2 PIN)	113	1-779-745-21	JACK, DC	NM.SOONYWeb.C	O.UK	WWW.SCONYW	eb.co.uk
36 37	4-660-876-01	PLATE DC JACK	114	1-694-761-11	JACK, SMALE TYPE	NAM SOUTH POP	CO.U.Y	WYWW. SONY	Web. co.tik
3.0	1-668-067-01	ETN (U) THEDMAT.	116	1-794-548-21	CONNECTOR, USB (A)	MMM's SOUN MED	D:00.0	JK, WWW. SOM	WWed CO. UK,
39	1-763-929-11	CPU FAN (H)	121	4-663-828-02	SPACER PC CARD	WWW.SOLL	, co.	IN, MMM 3N 50	WANGE CO. JAK
41 42	4-660-445-03 X-4625-369-1	BRACKET BATTERY ASSY SUBFRAME BOTTOM R2	122 127	4-669-683-02 N 4-663-227-01	SHEET (PLATE) (KEYBO	ARD) WWW.SOMY	neb.c	O.UK WWY.S	onyweo.co.uk,
43	A-8067-662-A \$	COMPLETE PWB CNX-194	130	4-655-927-03	SPRING (DVD-ROM)	UN, WWW.SOON	Meb.	CO.UK, WINN	Sconyweb.sco.uk,
44	4-660-823-02	BRACKET DOOR R	132	4-66/-896-01	TOOM SHEET HOODO	O.U.K. WYW. 50	Wel	D.CO.UK, WYWY	W. SOUTHEON CO. UK
45 * 46	4-661-272-02	INSULATOR BOARD AUDIO	133	4-664-362-01	CUSHION TO LEFT	CO. UK, WWW.	OUNN	SOO CO. UK, WY	MM. SOLL MEGO CO. UK,
* 47	4-660-451-01	PLATE GND HDD	136	4-004-402-01	FILAMENT TAPE (W10X2	50. (*1) UK WWW	5011	Neb co. UK,	WWW. SOLLYMED. CO. UK
48	4-663-115-02	FOOT REAR FIXED	138 141	4-665-909-01 4-665-467-01	INSULATOR BAY2 SPACER BATTERY (K)	Nep. Co. UK, WW.	W.SO.	Amed Co. rik	WWW.5001/Web.co.uk,
49	4-660-861-02	DOOR BATTERY	140	4 660 534 00	OLIDAN PRACTICAL CARREST	Meprocorrik, MA	NW.SC	Web com	K, Whyw. sonyweb. co. JK,
50 51	4-660-862-21	DOOR DIMM	142	4-669-734-02 4-669-899-01	SHEET BRACKET BATTER SHEET OPT RIGHTS	When co.co. UK, W	NNN.	SOUTH OF CO.	UK, WWW. SOUSTINEOUSCO. UK
* 52	4-660-447-01	SUB-FRAME BATTERY	146	4-669-898-01	SHEET OPT LEFT	aroxine co. co. uk,	MMM	SOLL MARCO CO	OUK, MINNIN SOLL CAMP SO. CO. UK,
33	A-0007-000-A ψ	COMPUSIE FWD DEX-41	150	4-669-895-01	CUSHION KEYBOARD H	oryweb.co.uk	MMA	W.SONYWOOD.C	CO.UK, WWW.SO.ODYWeb.ce
* 54 56	X-4624-529-2 1-824-824-11	ASSY BRACKET IO	151	4-669-790-01	GASKET 2ND FAN ANN	SONYWeb. CO.	IK WA	WW.SCOUNNED	CO.UK, WWW.SOONYW
58	4-653-745-01	SPRING BAY	152	4-670-415-01	SHEET THARMAL FIN (H	M. South Mep. Co	in K. M	INN SONY INE	O. CO. CH. WWW.S
59 60	4-659-630-02 X-4624-530-4	LATCH BAY ASSY DOOR MODEM	153 154	4-669-784-01 4-667-524-01	SPACER BOTTOM COPPER TAPE ETHERNET	MM. SOUNTHEON	10.UK	WWW. SONY	Dico. UK, W
+ 60	1 660 110 01	CIID EDAME DAV	155	4-668-262-01	LABEL ID	WWW.SOLLYNED	CO.	WWW.SOTI	conymed co.uk, www.sonywed.co.uk, www.sonywed.co.uk, www.sonywed.co.uk, www.sonywed.co.uk, www.sonywed.co.uk, www.sonywed.co.uk, co.uk, www.sonywed.co.uk, co.uk, www.sonywed.co.uk, co.uk, www.sonywed.co.uk, co.uk, www.sonywed.co.uk, co.uk, www.sonywed.co.uk, w
* 62 4-6 63 X-4 64 4-6 65 4-6	4-660-448-01 X-4624-538-2 4-660-822-03 4-660-452-02	Description ESCUSHON TACHPAD PAD, TOUCH ASSY HOUSING PALMREST H CUSHION PALMREST SPRING BLIND SPRING (BLIND) (R) PLATE ARM LEFT PLATE ARM LEFT PLATE ARM RIGHT PWB, FLEXIBLE PRINT THERMAL SHEET FET (H) BRACKET TOUCHPAD ASSY BEZEL COMBO (GNC) RW DRIVE CRX8108 WA ADHSSIVE TAPE TOUCHPAD SHEET BAY BOARD COMPLETE PWB CNX-196 WA ASSY BRACKET BAY CABLE, FLEXIBLE FLAT INSULATOR PWS COMPLETE PWB PWS-25 CONNECTOR, PC CARD (EJECT, RIGHTWA INSULATOR PCMCIA CARD, MODEM PWB, FLEXIBLE PRINT 2ND FAN (H) THERMAL SHEET ATI BATTERY, NICKEL HYDROGEN SHEET (BATTERY), ADHESIVE THERMAL SHEET ATI BATTERY, NICKEL HYDROGEN SHEET (BATTERY), ADHESIVE THERMAL SHEET CPU IC RK80532PCD56512SL6GS HANNESS (2 PIN) COMPLETE PWB CNX-193 PLATE DC JACK FIN (H), THERMAL CPU FAN (H) BRACKET BATTERY ASSY SUBFRAME BOTTOM R2 COMPLETE PWB CNX-194 BRACKET DOOR R INSULATOR BOARD AUDIO HOLDER HDD DOOR BATTERY SPRING BOOR BATTERY DOOR BATTERY SPRING DOOR BATTERY COMPLETE PWB LEX-41 ASSY BRACKET IO CABLE, FLEXIBLE FLAT SPRING BAY ASSY DOOR L BRACKET DOOR L HINCE BASE LEFT	*1 Hca	the FILAMENT TA	APF	WWW.SOILDYNE	10.CU	UK, WWYN.SON	YW
			*1 Use the FILAMENT TAPE.		WWW.SONYW	vep.	D.U. W. WW. SU		
66	4-660-872-01	INSULATOR HEATSINK BOTTOM				WWW.SOUA	Web.	co.uk, wi	
						WWW. SON	Men	D.CO	
						WWW.50	OUTME		
						WWY.S	0.		

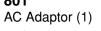
3-3 P





3-7

Ref.No. Part No. Description ACCESSORIES ****** 1-477-206-31 \$ A-8112-428-A \$ # ADAPTOR, AC BP2NX SKD (U) ASSY (S) 802 CORD, POWER 1 803 1-757-562-21 WEIGHT SAVER 4-660-884-02 (Refer to page 3-5.) 4-668-265-01 OUICK START





803 Power Cord (1)



802 Battery Pack (1)



804 Weight Saver (1)



The components identified by mark A or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

une marque A sont critiques pour la sécurité. Ne les remplacer que par une

Les composants identifiés par

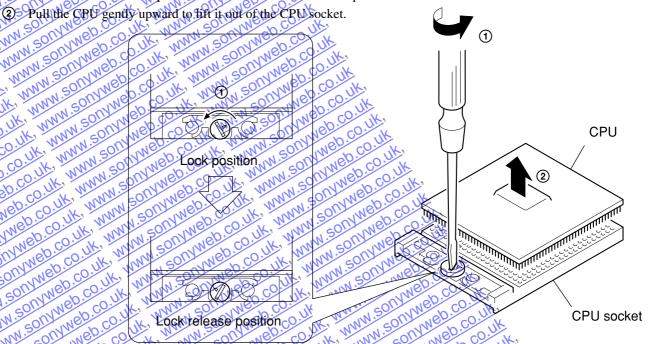
pièce portant le numéro spécifié.

Confidential PCG-GRV550 (AM)

4-1. Replacing the CPU

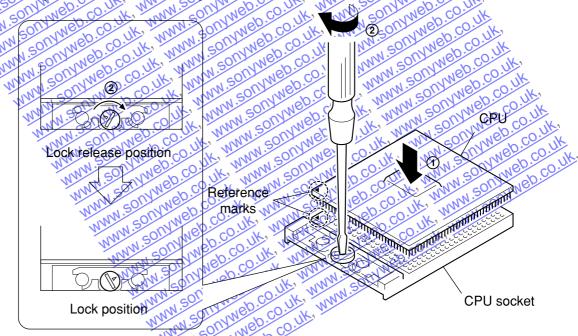
1. Removing the CPU

① Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock release position.



2. Installing the CPU

- 1 Align the triangle reference mark of the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
- 2 Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock position.



NOTE:

Rotate a flat-blade screwdriver to the lock position securely. If not, the operation of the CPU may become unstable.



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